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BOTANY.

Elementary Plant Physiology.¹ — This new and completely revised edition of the same author's earlier book, *Experimental Plant Physiology*, will without doubt be welcomed by the teacher. The experiments chosen are almost all of the simpler kind, being qualitative rather than quantitative, for which reason they will especially recommend themselves for use in elementary courses.

In the introductory chapter is given a series of selected courses which will serve as useful suggestions to the inexperienced or hurried teacher. At the same time the number of experiments described is sufficiently large to allow of independent choice, so that any course selected from the book may have a certain elasticity — a point of no little importance.

In starting out with the consideration of growth the author has undoubtedly chosen that phase of plant physiology which appeals most strongly to the average student, a fact which warrants the choice, when it is remembered that the object is to introduce the beginner to the subject. The chapters on the exchange of liquids and gases and on the general subject of nutrition are full and seem entirely adequate for the scope of the book. The wisdom of leaving the consideration of the effects of stimulation and correlation (the various trophic phenomena) to the last, in a place removed from the related topic of growth, might be questioned if the evident intention of the author were not taken into consideration. It is clearly his object to impress most strongly upon the student the phenomena connected with general and, on the whole, less complicated problems of plant physiology and to touch lightly upon the more intricate ones connected with correlations of growth. There are many reasons justifying such a treatment in an elementary course, particularly in a course which presumably would not be accompanied by many explanatory lectures or by much reading.

The text is terse and clear, the typography and form of the book excellent, both the author and publisher are to be congratulated on having produced a very acceptable and practically useful laboratory guide.

H. M. R.

Notes. — A new botanical publication, the *Recueil de l'Institut Botanique (Université de Bruxelles)*, has been launched by Professor

¹ MacDougal, D. T. *Elementary Plant Physiology*. New York, Longmans, Green & Co., 1902. 8vo, xi + 38 pp., 108 figs.